AMENDMENTS TO THE CLAIMS

- 1. 66. (Cancelled)
- 67. (Currently Amended) A method of forming an image on a printing plate precursor comprising:

providing a printing plate precursor comprising a substrate and a negative working oleophilic image forming layer applied onto the substrate, wherein the image forming layer comprises a polymeric binder consisting of polymeric material derived from phenol and a polymeric crosslinking material consisting of polymeric material derived from phenol at least one polymeric material having a hydroxyl, vinyl, aerylate or methaerylate moiety or a combination or derivative thereof;

imagewise contacting the image forming layer with a catalyst comprising an acid; and

thermally treating the image forming layer such that the polymeric material in imagewise contacted portions of the image forming layer undergoes a sufficient crosslinking reaction to cause the imagewise contacted portions of the image forming layer to become less developable in a developer liquid than portions of the image forming layer that are not contacted with the catalyst.

- 68. (Currently Amended) The method of claim 67 wherein the polymeric binder and the polymeric crosslinking agent consist of the same polymeric material which is capable of self-crosslinking upon thermal treatment in the presence of the catalyst.
 - 69. (Cancelled)
- 70. (Currently Amended) The method of claim 67 wherein the <u>polymeric binder</u> consisting of polymeric material derived from phenol includes image forming layer emprises a novolak resin.

71. (Cancelled)

- 72. (Currently Amended) The method of claim 67 [[71]] wherein the polymeric crosslinking material is capable of undergoing a condensation reaction with the [[a]] polymeric binder upon thermal treatment in the presence of the catalyst.
- 73. (Currently Amended) The method of claim 67 [[71]] wherein the polymeric crosslinking material is capable of undergoing a condensation reaction with the [[a]] polymeric binder upon thermal treatment at a temperature range of between about 20 and about 200 °C in the presence of the catalyst.
- 74. (Currently Amended) The method of claim 67 wherein the <u>polymeric</u> crosslinking material consisting of polymeric material derived from phenol includes image forming layer comprises a resole resin.
- 75. (Previously Presented) The method of claim 74 wherein the resole resin is prepared from a C₁-C₅ alkylphenol and formaldehyde, a tetra C₁-C₅ alkoxymethyl glycoluril, poly(4- methoxymethylstyrene), poly[(N-methoxymethyl) acrylamide], poly[(N-isobutoxymethyl) acrylamide], or a butylated phenolic resin.
- 76. (Currently Amended) The method of claim 67 wherein the <u>polymeric binder</u> consisting of polymeric material derived from phenol includes image forming layer emprises a novolak resin and the polymeric crosslinking material consisting of polymeric material derived from phenol includes a resole resin.
- 77. (Previously Presented) The method of claim 67 wherein the catalyst comprises a liquid mixture.

- 78. (Previously Presented) The method of claim 77 wherein the liquid mixture comprises polymeric binders, dispersing agents, humectants, biocides, surfactants, viscosity builders, colorants, pH adjusters, drying agents, defoamers or combinations thereof.
- 79. (Previously Presented) The method of claim 77 wherein the liquid mixture has a surface tension of between about 20 and about 60 dyncs/cm.
- 80. (Previously Presented) The method of claim 77 wherein the liquid mixture has a surface tension of between about 30 and about 50 dynes/cm.
- 81. (Previously Presented) The method of claim 67 wherein the thermal treatment step comprises heating the image forming layer at between about 20 and about 200 °C.
- 82. (Previously Presented) The method of claim 67 wherein the thermal treatment step comprises heating the image forming layer at between about 75 and about 150 °C.
- 83. (Previously Presented) The method of claim 67 wherein the thermal treatment step comprises heating the image forming layer at between about 90 and about 130 °C.
- 84. (Previously Presented) The method of claim 67 wherein thermal treatment step occurs for between about 15 and about 300 seconds.
- 85. (Previously Presented) The method of claim 67 wherein the thermal treatment step occurs for between about 30 and about 90 seconds.
- 86. (Previously Presented) The method of claim 67 further comprising the step of contacting the image forming layer with a developer liquid to remove the portions of the image forming layer that are not contacted with the catalyst.

- Page 6
- 87. (Previously Presented) The method of claim 86 wherein the developer liquid comprises an aqueous alkaline developer.
- 88. (Previously Presented) The method of claim 86 wherein the developer liquid has a pH of at least about 11.
- 89. (Previously Presented) The method of claim 86 wherein the developer liquid has a pH of at least about 12.
- 90. (Previously Presented) The method of claim 86 wherein the developer liquid has a pH of between about 12 and about 14.
- 91. (Previously Presented) The method of claim 86 wherein the developer liquid comprises at least one metal silicate.
- 92. (Previously Presented) The method of claim 91 wherein the developer liquid has a ratio of silicon oxide to metal oxide of at least about 0.3.
- 93. (Previously Presented) The method of claim 91 wherein the developer liquid has a ratio of silicon oxide to metal oxide of between about 0.3 and about 1.2.
- 94. (Previously Presented) The method of claim 91 wherein the developer liquid has a ratio of silicon oxide to metal oxide of between about 0.6 to about 1.1.
- 95. (Previously Presented) The method of claim 91 wherein the developer liquid has a ratio of silicon oxide to metal oxide of between about 0.7 to about 1.0.
- 96. (Previously Presented) The method of claim 91 wherein the metal silicate comprises lithium silicate, sodium silicate, potassium silicate or a combination thereof.

AN 10/615,002 Page 7

- 97. (Previously Presented) The method of claim 86 wherein the developer liquid is free of organic solvents.
- 98. (Previously Presented) The method of claim 86 wherein the developer liquid comprises at least one hydroxide moiety.
- 99. (Previously Presented) The method of claim 98 wherein the developer liquid comprises ammonium hydroxide, sodium hydroxide, lithium hydroxide, potassium hydroxide or a combination thereof.
- 100. (Previously Presented) The method of claim 86 wherein the developer liquid comprises a combination of a metal silicate and a hydroxide containing compound.
- 101. (Previously Presented) A method of forming an image on a printing plate precursor comprising:

providing a printing plate precursor comprising a substrate and a negative working oleophilic image forming layer applied onto the substrate, wherein the image forming layer comprises at least one polymeric material comprising a poly(4-hydroxystyrene), poly(4-hydroxystyrene/methylmethacrylate), poly(2-hydroxyethylmethacrylate/cyclohexylmethacrylate), poly(2-hydroxyethylmethacrylate/methylmethacrylate), poly(styrene/butylmethacrylate/methylmethacrylate/methacrylate/methacrylate/methacrylate/methacrylate/nethacrylate/nethacrylate/nethacrylate), poly(styrene/n-butylmethacrylate/2-hydroxyethylmethacrylate/methacrylate/methacrylate/hydroxyethylmethacrylate/methacrylic acid), poly(styrene/ethylmethacrylate/2-hydroxyethylmethacrylate/methacrylic acid), poly(styrene/ethylmethacrylate/2-hydroxyethylmethacrylate/methacrylic acid), poly (N-methoxymethyl methacrylamide/2-phenylethyl methacrylate/methacrylic acid) or combinations or derivatives thereof;

AN 10/615,002 Page 8

imagewise contacting the image forming layer with a catalyst comprising an acid; and

thermally treating the image forming layer such that the polymeric material in imagewise contacted portions of the image forming layer undergoes a sufficient crosslinking reaction to cause the imagewise contacted portions of the image forming layer to become less developable in a developer liquid than portions of the image forming layer that are not contacted with the catalyst.

102. (Previously Presented) A method of forming an image on a printing plate precursor comprising:

providing a printing plate precursor comprising a substrate and a negative working oleophilic image forming layer applied onto the substrate, wherein the image forming layer comprises at least one polymeric material comprising a C₁-C₅ alkoxymethyl melamine resin, a C₁-C₅ alkoxymethyl glycoluril resin, a poly(C₁-C₅ alkoxymethylstyrene) resin, a poly(C₁-C₅-alkoxymethylacrylamide) resin or a derivative or combination thereof;

imagewise contacting the image forming layer with a catalyst comprising an acid; and

thermally treating the image forming layer such that the polymeric material in imagewise contacted portions of the image forming layer undergoes a sufficient crosslinking reaction to cause the imagewise contacted portions of the image forming layer to become less developable in a developer liquid than portions of the image forming layer that are not contacted with the catalyst.